# Energy Statistics at the United Nations Statistics Division

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### Overview

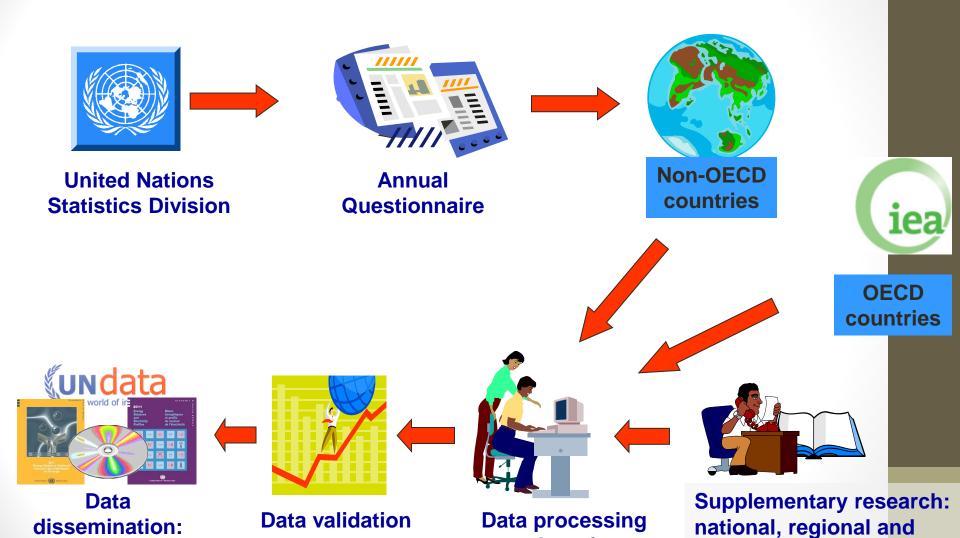
- Data compilation
- Data dissemination
- Methodology
- JODI
- MBS
- Capacity building

### Data compilation

- Annual data collection of energy statistics (data go back to 1950)
- Questionnaire revised for 2011 collection to agree with changes made due to the work on IRES
- Products include all primary and secondary fossil fuels, various types of electricity and heat generation, biofuels and wastes
- Flows cover main aspects of supply, transformation, own use and consumption

### The Production Process

Publications, CDs and UNdata



and storing

international Statistical

publications

### UN energy stats questionnaire

# The energy statistics questionnaire requests information from countries on

- > coal, peat, coal and peat products, manufactured gases
- primary and secondary oil products
- natural gas
- > electricity and heat, by generating source
- biofuels and waste

#### and for the flows:

- production
- > trade and bunkers
- stock changes
- transfers and transformation (by type)
- > consumption (energy and non-energy, and by economic sector)

### Conversion factors (for solid fuels and crude oil)

### Additional data sources

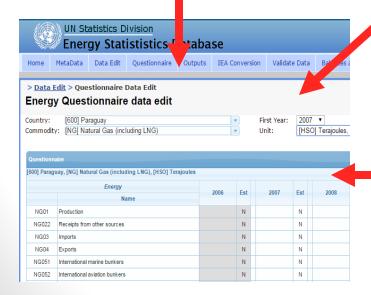


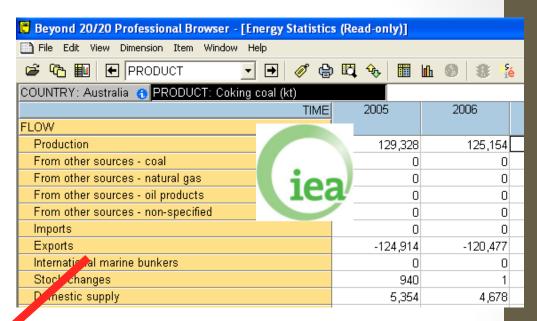
#### Production Quantity | Wood Fuel+

year year

1			
country		2005	2006
	Afghanistan	1466629.00	1498194.00
	Albania	221000.00	221000.00
	Algeria	7668832.00	7767081.00

FAOSTAT | @ FAO Statistics Division 2008 | 04 August 2008





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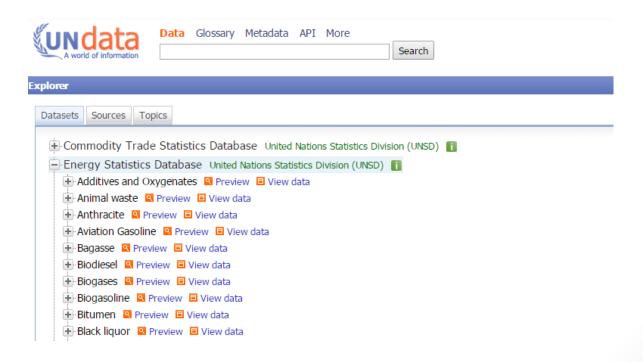


### **UNSD Energy Statistics Database**

- Covers more than 220 countries/territories
- Data from 1950 to 2011
- Over 60 products, plus electricity and refinery capacities
- More than 100 flows
- The data collection feeds the UN Energy Statistics database

### Dissemination

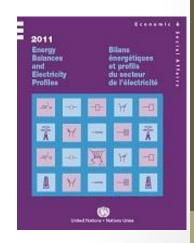
- Database available (paid service) via CD
- Data from 1990 available for free via UNData



# Main publications

- Energy Statistics Yearbook
  - comprehensive collection of international energy statistics
  - 38 tables + graphs
- Energy Balances and Electricity Profiles
  - Balances: 118 countries
  - Profiles: 194 countries
- Monthly Bulletin of Statistics





# Methodological work

- Coordination of work and collaboration with:
  - Oslo Group on Energy Statistics
  - InterEnerStat (Inter-Secretariat WG on Energy Stats)
  - Regional organizations
- Work on the advancement and standardization of statistical methods, classifications and definitions in energy statistics
- Resulted in significant changes to our questionnaire

### IODI

- Joint Organisations' Data Initiative UNSD, Eurostat, IEA, OLADE, OPEC, APEC, GECF, IEFS
- Set up in 2001 in response to oil market volatility, uncertainty caused by insufficient data
- Monthly oil data collection, on ~45 data points with a refinery input/output model
- Data collected on an M-1 basis and published quickly
- Database now has data for over 90 countries.





# JODI contd.

 Initiative extended to gas in 2009; gas database officially launched in May 2014



- Gas data are simpler (only one product, no refinery input/output issues)
- Backing up both JODI oil and JODI gas are two manuals, and periodic regional workshops (~two a year)
- Data are not perfect, but cover most (~80-90%) of world supply and consumption for both oil and gas
- Both databases are ongoing efforts subject to continuous improvement



### MBS

- Energy provides five of the tables of the UNSD's Monthly Bulletin of Statistics, on production of:
  - Hard coal
  - Lignite
  - Crude oil
  - Natural gas
  - Electricity
- Available as a print publication, and at:

http://unstats.un.org/unsd/mbs/app/DataSearchTable.aspx

### **Technical Cooperation**

- Recent meetings
  - Jordan, March 2014 (Environment and Energy workshop)
  - UAE, May 2014 (Oslo Group meeting)
  - Qatar, November 2014 (JODI training for sub-Saharan Africa)
  - Chile, December 2014 and Bangkok, January 2015 (Development Account Project on Indicators for the Green Economy)
- Upcoming
  - Austria, March 2015 (JODI training for SE Europe)
  - India, April 2015 (JODI conference)
  - IEA, early 2015 (InterEnerStat)
  - China, mid 2015(?) (workshop on energy balances)
  - Mexico, later 2015(?) (next Oslo Group meeting)

# Thanks!

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